

Work Order ID 138211

Tuesday, October 27, 2015 11:05:50 AM

138211

Ship Nov 25

Page 1

Item ID: 647.3704

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: 204,205,212,214 Cable Cutter System, High

Stop

NS2

Start Date: 10/26/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 10/26/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: MJS

Date: OCT 27 2015

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								
100		0.00	DAS 6 9-00	MJS		15-11-24			
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.3704								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

Sms
15/11/24

NOV 23 2015

Sms
15/11/25

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed:

Date:

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

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Work Order ID: 138211

138211

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

647.4410 Manufactured No

110 Each 24.0000 1 1

647 4410

Rail

**

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK081

24

120755

8

120986

16

647.4010 Manufactured No

110 Each 28.0000 1 1

647 4010

Wiper Deflector RH

**

DAS
26
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

cck87

28

120628

3

120740

17

m129721

8

647.4011 Manufactured No

110 Each 27.0000 1 1

647 4011

Wiper Deflector LH

**

DAS
26
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

cck78

27

120629

3

120741

17

m129721

7

647.4110 Manufactured No

110 Each 24.0000 1 1

647 4110

Doubler

**

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK080

24

120742

6

120987

18

NOV 23 2015

DAS
26
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

647.4111

Manufactured No

110

Each

25.0000

1

1

647 4111

Doubler

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck111

25

120743

16

120967

9

647.4112

Manufactured No

110

Each

11.0000

1

1

647 4112

Clip

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

11

126770

11

647.4113

Manufactured No

110

Each

11.0000

1

1

647 4113

Clip

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

11

126771

11

647.4114

Manufactured No

110

Each

55.0000

2

2

647 4114

Shim

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

55

120635

14

120746

28

120941

13

NOV 23 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

647.4115 Manufactured No

110 Each 40.0000 2 2

647 4115

Shim

**

DAS
26
9-89

Smp

Location

Loc Qty

Loc Code

CCK112

40

120747

31

120949

9

2

DAS
6
9-89

647.4116 Manufactured No

110 Each 26.0000 1 1

647 4116

Shim

**

DAS
26
9-89

Smp

Location

Loc Qty

Loc Code

CCK112

26

120748

10

121064

16

1

DAS
6
9-89

647.4210 Manufactured No

110 Each 22.0000 1 1

647 4210

Bracket LH

**

DAS
26
9-89

Smp

Location

Loc Qty

Loc Code

CCK112

7

120749

7

CCK123

15

121086

15

1

DAS
6
9-89

647.4211 Manufactured No

110 Each 24.0000 1 1

647 4211

Bracket RH

**

NOV 23 2015

Smp

Location

Loc Qty

Loc Code

CCK112

9

120750

9

CCK123

15

121134

15

1

DAS
6
9-89

DAS
26
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

Picklist Print

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

647.4212

Manufactured No

110

Each

9.0000

1

1

647 4212

Plate

**

DAS

26
9-89

6

9-89

Location

Loc Qty

Loc Code

CCK112

9

120945

4

m129702

5

647.4311

Manufactured No

110

Each

9.0000

1

1

647 4311

RH Lower Strut

**

DAS

26
9-89

6

9-89

Location

Loc Qty

Loc Code

CCK67

9

126398

9

647.4310

Manufactured No

110

Each

28.0000

1

1

647 4310

LH Lower Strut

**

DAS

26
9-89

6

9-89

Location

Loc Qty

Loc Code

cck066

28

126395

19

126396

9

647.4312

Manufactured No

110

Each

9.0000

1

1

647 4312

LH Upper Strut

**

DAS

NOV 23 2015

6

9-89

26
9-89

Location

Loc Qty

Loc Code

CCK67

9

126399

9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

647.4313

Manufactured No

110

Each

9.0000

1

1

647 4313

RH Upper Strut

DAS
26
9-89

SmB

Location

Loc Qty

Loc Code

cck068

9

126401

9

NAS1149FN832P

Purchased

No

110

Each

2,186.000

34

34

NAS1149FN832P

Washer

DAS
6
9-89

SmB

Location

Loc Qty

Loc Code

GA

346

125268

346

ST260a

500

M133316

500

ST267

419

125268

100

M133284

319

st268

921

M130388

921

DAS
6
9-89

NOV 23 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Root Cause			FAULT CATEGORY			
Environment ☐	No Re-verification ☐		Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐		Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐		Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐		Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐		Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐		Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐		Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐		Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐		Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐		Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐	Past Due ☐					

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138211

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

1,515.000

157

157

NAS1149F0332P

Washer

Location

Loc Qty

Loc Code

GA

162

122063

162

ST260a

636

m128401

6

m131026

80

m131697

50

m133284

500

st268

117

123900

7

m130388

86

m133077

24

ST288

600

m133134

600

MS27039-1-07

Purchased

No

110

Each

438.0000

12

12

MS27039-1-07

Screw

Location

Loc Qty

Loc Code

GA

334

125654

334

ST286

104

m127813

96

m130388

8

DAS
26
9-89

DAS
26
9-89
NOV 23 2015

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Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

301.0000

42

42

MS27039-1-10

SCREW

DAS
26
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

cck007a

200

m132677

200

GA

50

m129541

50

ST285

10

m123522

2

m132640

8

MS27039-08-08

Purchased

No

110

Each

123.0000

16

16

MS27039-08-08

Screw

DAS
26
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST282

115

m129541

20

m130799

95

DAS
26
9-89
NOV 23 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Work Order ID: 138211

138211

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

201.0000

14

14

MS27039-1-09

Screw

DAS
6
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST0285

91

125646

91

ST285

40

124859

29

m130388

11

14

DAS
6
9-89

DAS
26
9-89

MS27039-08-11

Purchased

No

110

Each

198.0000

2

2

MS27039-08-11

SCREW

Location

Loc Qty

Loc Code

cck007a

100

m133363

100

ST282

98

m130358

1

m133134

97

2

DAS
6
9-89

DAS
26
9-89

MS24694-S49

Purchased

No

110

Each

231.0000

1

1

MS24694-S49

Screw

Location

Loc Qty

Loc Code

ST289

231

m129499

100

m129702

131

1

NOV 23 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

MS24694-C53

Purchased

No

110

Each

160.0000

8

8

MS24694-C53

Screw

**

DAS
26
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST287

160

m129499

8

m129702

152

601.3073

Purchased

No

110

Each

4.0000

1

1

601 3073

Connector

**

DAS
26
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK099

4

M133344

4

AN3-4A

Purchased

No

110

Each

159.0000

3

3

AN3-4A

Bolt

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST338a

100

m133234

100

ST350

59

m129682

50

m132317

5

m133064

4

DAS
6
9-89

NOV 23 2015
DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER :			

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Work Order ID: 138211

138211

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-11A

Purchased

No

110

Each

142.0000

8

8

AN3-11A

Bolt

**

DAS 26 9-89

Location

Loc Qty

Loc Code

ST338a

50

m133363

50

ST349

92

m132823

8

m133234

84

AN3C10A

Purchased

No

110

Each

15.0000

2

2

AN3C10A

Bolt

**

DAS 26 9-89

Location

Loc Qty

Loc Code

ST349

15

m128634

15

CR3212-4-2

Purchased

No

110

Each

109.0000

5

5

CR3212-4-2

Cherry Rivet

**

DAS 26 9-89

Location

Loc Qty

Loc Code

ST320

9

121090

9

ST321

100

m133363

100

CR3212-4-3

Purchased

No

110

Each

0.0000

17

17

CR3212-4-3

Cherry Rivet

**

DAS 26 9-89

CR3212-4-4

CR3212-4-04

Purchased

No

110

Each

0.0000

7

7

CR3212-4-4

CHERRY RIVET

**

DAS 26 9-89

NOV 23 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
				OTHER : ☐							

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Work Order ID: 138211

138211

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

CCR264SS3-04

Purchased

No

110

Each

699.0000

12

12

CCR264SS3-04

Rivet

26
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK004

590

123785

400

m129702

190

ST321

109

123352

109

CCR264SS-3-03

Purchased

No

110

Each

163.0000

16

16

CCR264SS-3-03

Rivet

26
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

LG001

123

m128606

123

ST321

40

m128606

40

CR3213-4-2

Purchased

No

110

Each

557.0000

31

31

CR3213-4-2

Cherry Rivet

26
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK003

192

123301

192

ST319

365

m131340

365

NOV 23 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

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Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3

Purchased

No

110

Each

417.0000

24

24

CR3213-4-3

Rivet, Cherry

Shp

Location

Loc Qty

Loc Code

CCK004

217

123301

45

m129541

100

m130388

72

ST318

200

m131340

200

24

DAS 26 9-89

CR3213-4-4

Purchased

No

110

Each

352.0000

16

16

CR3213-4-4

Rivet, Cherry

Shp

Location

Loc Qty

Loc Code

CCK004

304

126282

304

ST319

48

M130388

48

16

NOV 23 2015

DAS 26 9-89

CR3213-4-5

Purchased

No

110

Each

264.0000

28

28

CR3213-4-5

Rivet

-05

Shp

Location

Loc Qty

Loc Code

CCK003

259

M129913

259

CCK004

5

M130388

5

5

NOV 23 2015

DAS 26 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Skid-tube ☐</td> <td style="width: 15%;">Cross tube ☐</td> <td style="width: 15%;">Water Jet ☐</td> <td style="width: 15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																				
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																				
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																				
Large Fab ☐	Composite ☐	Supplier ☐																																																																					
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OTHER :																																																																							

Picklist Print

Tuesday, October 27, 2015 11:05:49 AM

Page 14

Work Order ID: 138211

138211

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-8

Purchased

No

110

Each

144.0000

4

4

CR3213-4-8

Rivet

Smb

**

DAS

DAS
26
9-89

6
9-89

Location

Loc Qty

Loc Code

ST319

144

123785

144

MS21042-3

MS21042L3

Purchased

No

110

Each

250.0000

79

79

MS21042-3

Nut / use MS21042L3

**

DAS

DAS
26
9-89

6
9-89

Location

Loc Qty

Loc Code

ST305

250

M128770

10

M129541

15

M129682

202

M130388

23

MS21042-08

MS21042L08

Purchased

No

110

Each

33.0000

18

18

MS21042-08

USE MS21042L08

**

DAS

DAS
26
9-89

6
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

MS21047L06

Purchased

No

110

Each

68.0000

6

6

MS21047L 06

Nut Plate

Smb

**

DAS

DAS
26
9-89

6
9-89

Location

Loc Qty

Loc Code

ST303

68

m131340

68

NOV 23 2015

Tuesday, October 27, 2015 11:05:49 AM

Shop Packet Print

Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																							
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OTHER :																																																															

Picklist Print

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Page 15

Work Order ID: 138211

138211

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 10/26/2015

Required Date: 10/26/2015

Start Qty: 1.00

Required Qty: 1.00

MS21047L08

Purchased No

110 Each 39.0000 6 6

MS21047L08

Nut Plate

**

DAS
26
9-89

Smb

Location

Loc Qty

Loc Code

ST303

39

m129702

39

MS21047-3

Purchased No

110 Each 151.0000 4 4

MS21047-3

Nut Plate

**

DAS
26
9-89

Smb

Location

Loc Qty

Loc Code

CCK007

50

m133031

50

ST303

101

m130388

8

m133134

43

m133234

50

MS21071L3

Purchased No

110 Each 244.0000 4 4

MS21071L3

ANCHOR NUT

**

DAS
26
9-89

Smb

Location

Loc Qty

Loc Code

ST301

244

114348

1

124291

39

125654

100

m129702

104

601.3083

Manufactured No

110 Each 7.0000 1 1

601.3083

Adhesive Rubber Seal

**

NOV 23 2015
DAS
26
9-89

Smb

Location

Loc Qty

Loc Code

cck012

7

130723

7

Tuesday, October 27, 2015 11:05:49 AM

Shop Packet Print

Page 15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="width: 16.6%;">Skid-tube ☐</td> <td style="width: 16.6%;">Cross tube ☐</td> <td style="width: 16.6%;">Water Jet ☐</td> <td style="width: 16.6%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Design ☐		Operator ☐		Bending ☐		Set-up ☐		Folio/Program ☐		Outside Dimensions ☐															
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐		Grain ☐		Over/Under tolerance ☐															
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐		Weld ☐		Part Incorrect ☐															
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐		Part Lost/Missing ☐															
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Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____																					
Misidentified ☐		Past Due ☐																							

Tuesday, October 27, 2015 11:05:49 AM

138211

647 3704

Required Date: 10/26/2015

Required Qty: 1.00

110	Each	0.0000	1	1
-----	------	--------	---	---

133380

110	Each	10.0000	1	1
-----	------	---------	---	---

Location

Loc Qty

Loc Code

CCK096

10

m133275

10

5/31/2017

NOV 23 2015

Shop Packet Print

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



04881

DWG NO. 647.3700

REV:

N/C

PREPARED
BY

J. BECKER

DATE: 02/26/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

C-CREATE
D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

ECR:

N/A

[illegible]

ACTION ITEM:

1.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO 138211 M.C.S
15-10-27

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY			
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION		MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:								CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM								☐ MAJOR ☒ MINOR	☐ YES ☒ NO	



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04845

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/11/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY: ENGR

[Signature]

MFG

[Signature]

QC

[Signature]

EFF. NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

C-CREATE
D-DELETE

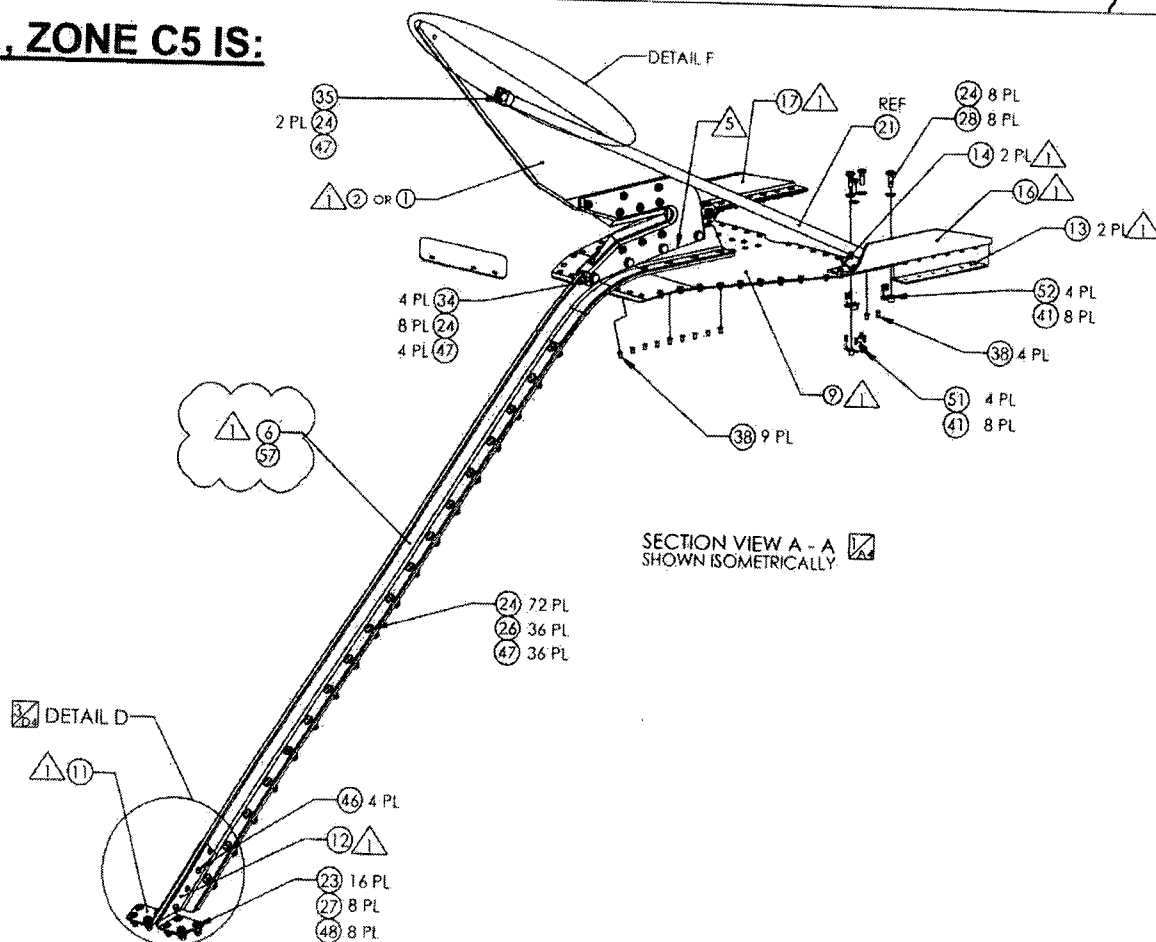
REASON: ADDED F/N 57

ECR:

ACTION ITEM:

1.

SHEET 1, ZONE C5 IS:



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF				
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION			MATERIAL	SPECIFICATION
			QTY								
DOCUMENTS EFFECTED:							☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM			CHANGE CATEGORY	DER REVIEW REQUIRED
										☐ MAJOR ☒ MINOR	☐ YES ☒ NO

INDUSTRIES, INC.

SHEET 1 OF 1

REV: NC

PREPARED
BY

R. ROSANO

DATE: 12/23/09

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

KMFQ

QC

EFF:

~~NEXT ORDER~~

TRANSACTION CODES (TC):

A-ADD C-CREATE

R-REVISE D-DELETE

REASON: ADDED MODEL 214 TO APPROPRIATE DESCRIPTIONS

SHEET 1, ZONE D7 IS:

15

		X				647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH		
			X			647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW		
				X		647.3702	412 CABLE CUTTERS KIT HIGH		
					X	647.3701	412 CABLE CUTTERS KIT LOW		
	.3704	.3703	.3702	.3701	FIND	PART #	DESCRIPTION	MAT'L	SPEC.

F/N	TC	PART NUMBER	2901
			QTY

QTY

DESCRIPTION

MATERIAL

SPECIFICATION

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRU ☒ ICA ☒ BDM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☒ YES ☐ NO

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UNINCORPORATED ECN(S)

02228, 04845, 04881

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD. USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

DETAIL C

564

4203

647.3701 SHOWN

REF	REF	REF	REF	56	647.3701	GPS MOUNT KIT		
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCTITE 598	
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1425	
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	MIL-R-3045	
4	4	4	4	52	601.2957	NUTPLATE	MS21071L3	
4	4	4	4	51	600.0795	NUTPLATE	MS21047.3	
6	6	6	6	50	601.3066	NUTPLATE	MS21047.08	
6	6	6	6	49	601.3065	NUTPLATE	MS21047.06	
18	18	18	18	48	601.2973	LOCKNUT	MS21042.508	
79	79	79	79	47	601.2943	LOCKNUT	MS21042.3	
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4.8	
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4.5	
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4.4	
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4.3	
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4.2	
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

	16	16	16	16	41	601.2207	NUTPLATE RIVET	CCR26455-3-03	
	12	12	12	12	40	601.2491	NUTPLATE RIVET	CCR26455-3-04	
	7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-2	
	17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3	
	5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2	
	6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1	
	2	2	2	2	35	601.1874	BOLT	AN3C1DA	
	8	8	8	8	34	601.2826	BOLT	AN3-11A	
	3	3	3	3	33	601.2823	BOLT	AN3-4A	
	1	1	1	1	32	601.3073	CONNECTOR	987-4440	
	8	8	8	8	31	601.2419	SCREW	MS24694-503	
	1	1	1	1	30	601.3070	SCREW	MS24694-549	
	2	2	2	2	29	601.2693	SCREW	MS27039-081	
	14	14	14	14	28	601.3069	SCREW	MS27039-1-09	
	16	16	16	16	27	601.2263	SCREW	MS27039-0808	
	42	42	42	42	26	601.1365	SCREW	MS27039-1-10	
	12	12	12	12	25	601.2198	SCREW	MS27039-1-07	
	157	157	157	157	24	601.1607	WASHER	NAS114903002P	
	34	34	34	34	23	601.2764	WASHER	NAS114918032P	
	1	1	1	1	22	647.4313	RH UPPER STRUT		
	1	1	1	1	21	647.4312	LH UPPER STRUT		
	1	1	1	1	20	647.4310	LH LOWER STRUT		
	1	1	1	1	19	647.4311	RH LOWER STRUT		
	1	1			18	647.4212	PLATE		
	1	1	1	1	17	647.4211	BRACKET RH		
	1	1	1	1	16	647.4210	BRACKET LH		
	1	1	1	1	15	647.4116	SHIM		
	2	2	2	2	14	647.4115	SHIM		
	2	2	2	2	13	647.4114	SHIM		
	1	1	1	1	12	647.4113	CLIP		
	1	1	1	1	11	647.4112	CLIP		
	1	1	1	1	10	647.4111	DOUBLER		
	1	1	1	1	9	647.4110	DOUBLER		
	1	1	1	1	8	647.4011	WIPER DEFLECTOR LH		
	1	1	1	1	7	647.4010	WIPER DEFLECTOR RH		
	1	1	1	1	6	647.3915	DEFLECTOR		
	1	1	1	1	5	647.4410	RAIL		
	1		1		4	647.3804	LOWER CUTTER ASSY HIGH		
		1		1	3	647.3803	LOWER CUTTER ASSY LOW		
	1	1			2	647.3802	212 UPPER CUTTER ASSY		
			1	1	1	647.3801	412 UPPER CUTTER ASSY		

QTY

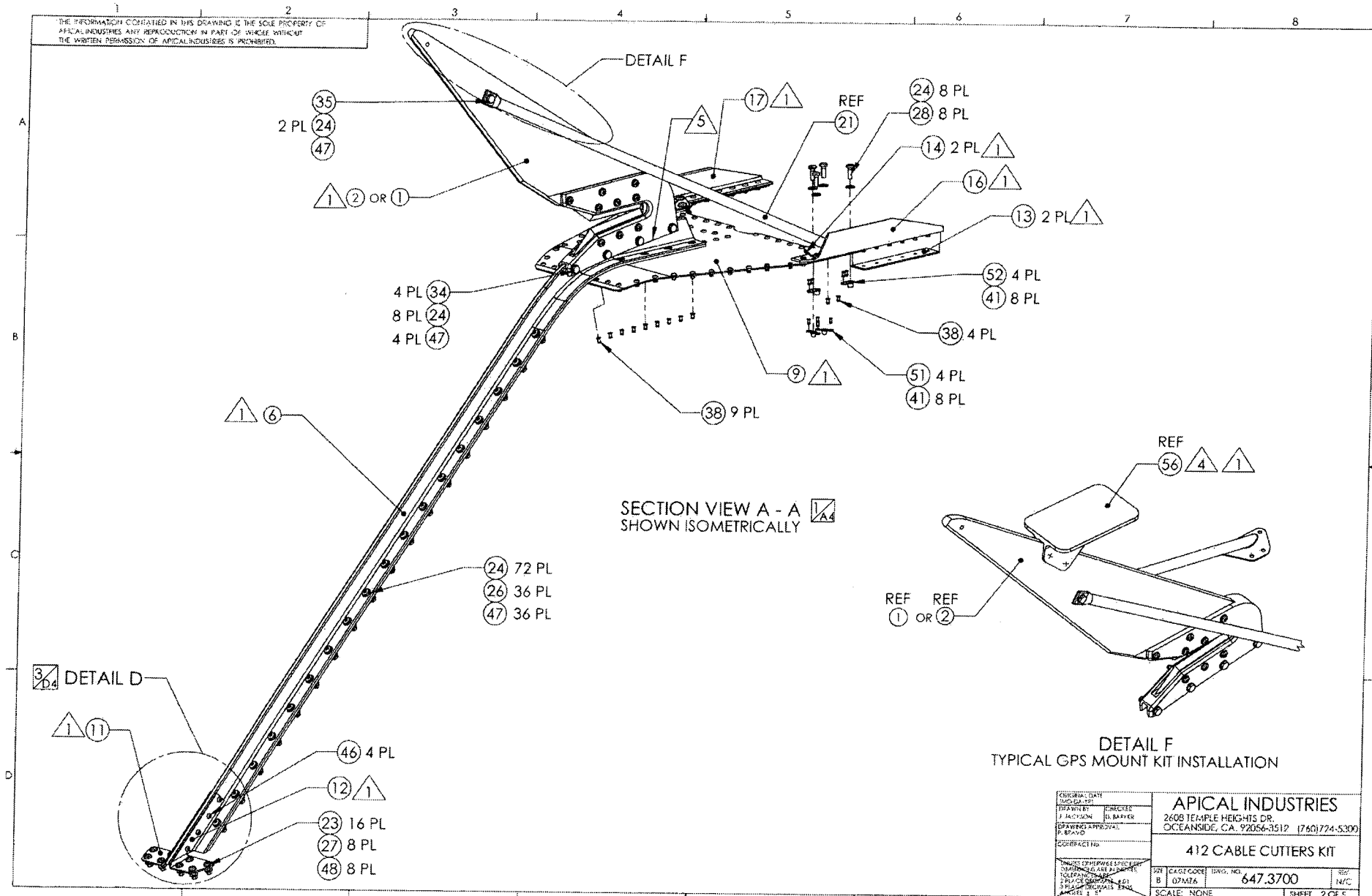
NEXT ASSY (S)

ORIGINAL DATE
02-20-04
DESIGNED BY
J. JACKSON
CHECKED BY
D. RAFFERTY
DRAWING APPROVAL
P. BRAYC
02-20-04
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS
2 PLACE DECIMALS
UNLESS OTHERWISE SPECIFIED
ANGLES IN DEGREES

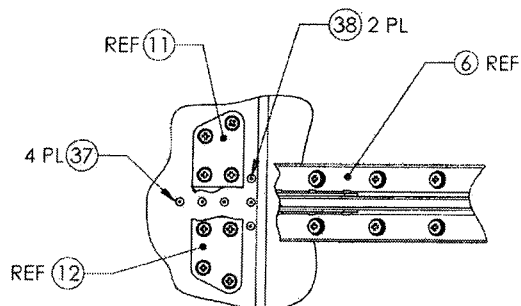
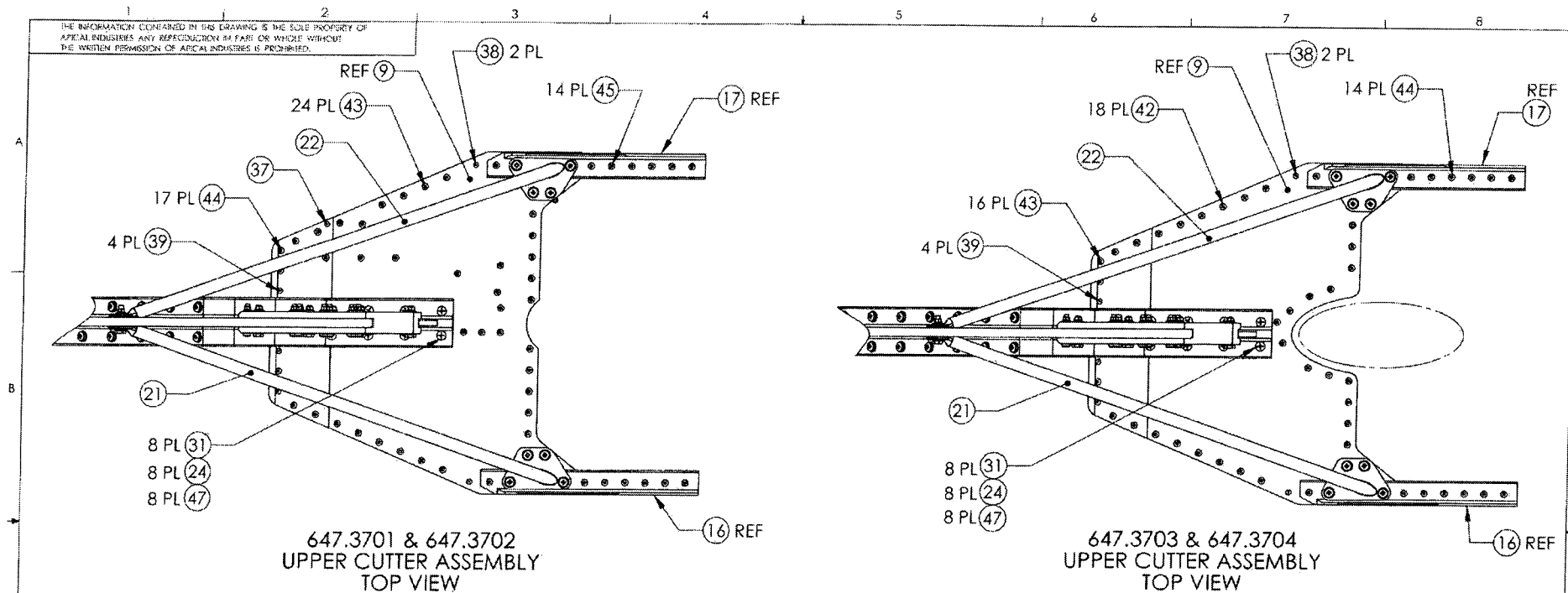
PARTS LIST
APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300
412 CABLE CUTTERS KIT
REV. 1/12
SCALE NONE
SHEET 1 OF 5

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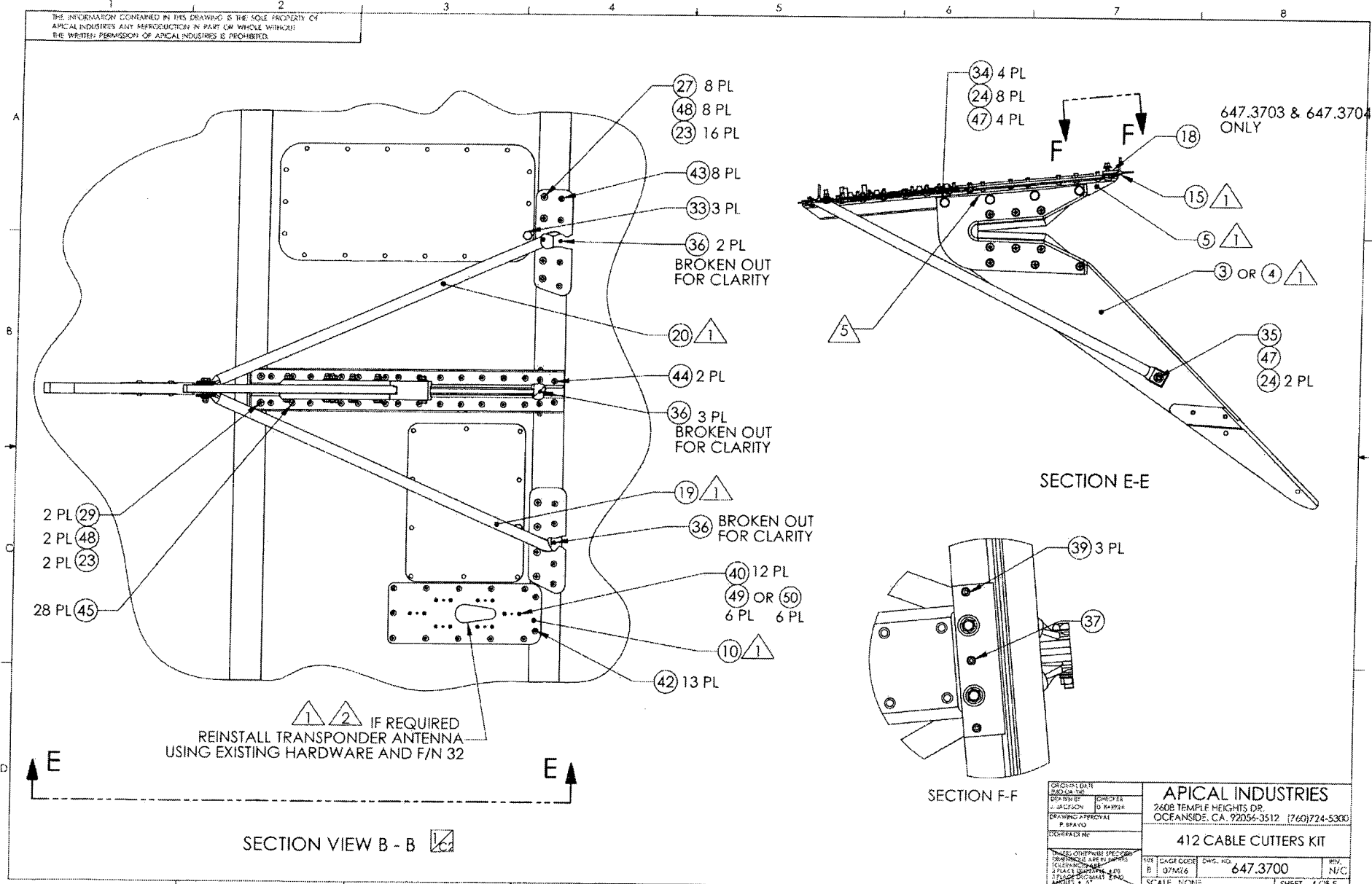
DRAWING DATE 10/01/01		APICAL INDUSTRIES 2600 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWN BY J. JACKSON	CHECKED BY J. BARNER	412 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAYO	CONTRACT NO.	CAGE CODE B 07M76	DWG. NO. 647.3700
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS .01 3 PLACES DECIMALS .001 ANGLES ± .5°		SCALE NONE	REV. N/C SHEET 2 OF 5

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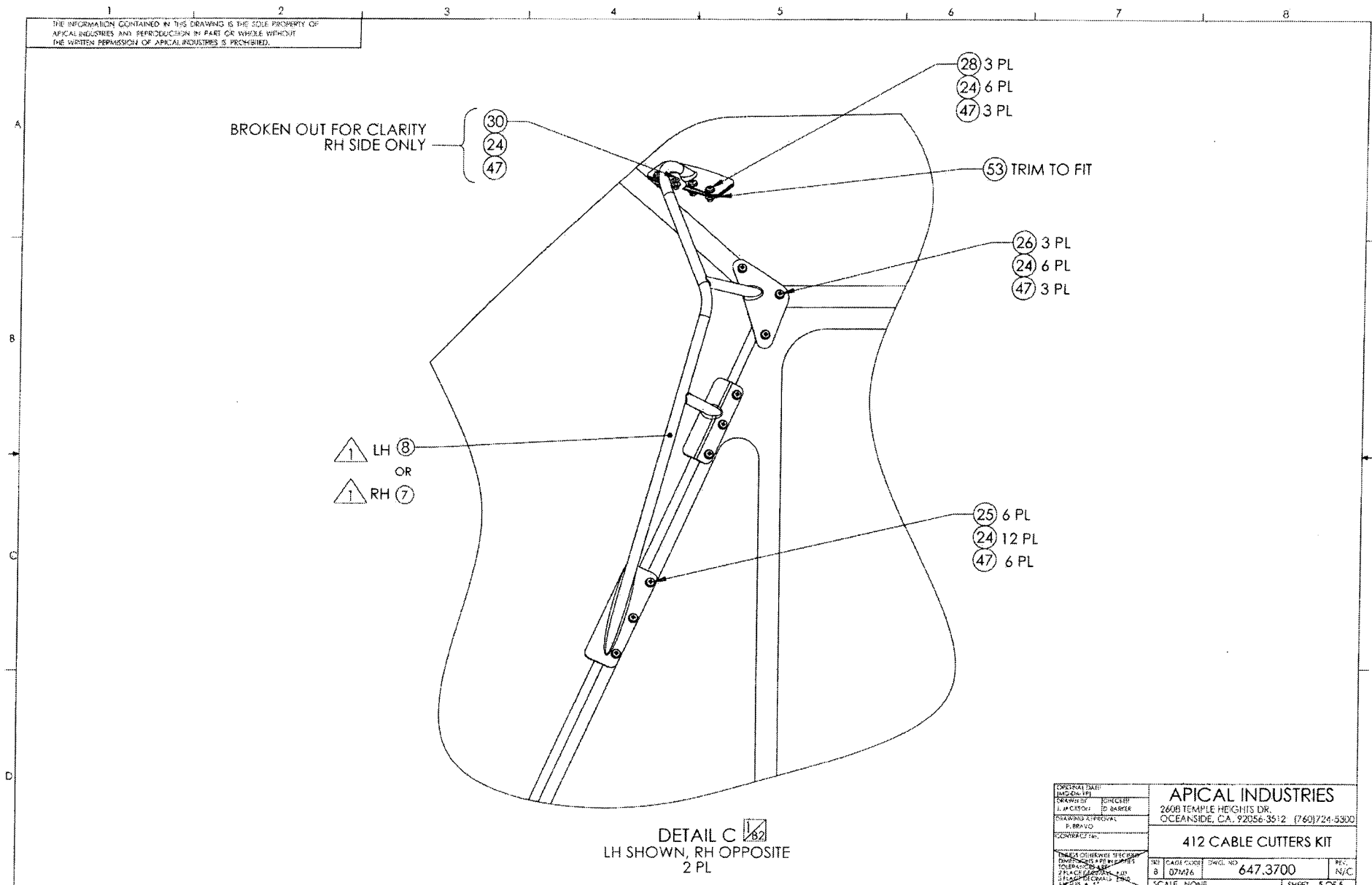


CHECKED BY DESIGNED BY A. JACKSON DRAWING APPROVAL P. BRAYO CONTRACT NO.		APICAL INDUSTRIES 2408 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
TITLE (OTHERWISE SPECIFY) DRAWING NO. 647.3700 3 PLACES (PARTS) 4.00 3 PLACES (SMALL) 2.00 3 PLACES (LARGE) 2.00		SCALE NONE	SHEET 3 OF 5

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APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
412 CABLE CUTTERS KIT	
SHEET NO. 8 DWG. NO. 647.3700 SCALE: NONE	REV. N/C SHEET 5 OF 5

DAS
28
9-89

6 VENDOR: MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

647.3701 SHOWN

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT			
A/R	A/R	A/R	A/R	55	601.2045	RTV	1CH016 598		
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR 215		
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	CS 539		
4	4	4	4	52	601.2957	NUTPLATE	NUL P 3065		
4	4	4	4	51	600.0795	NUTPLATE	MS2107113		
6	6	6	6	50	601.3066	NUTPLATE	MS21047-3		
6	6	6	6	49	601.3065	NUTPLATE	MS21047-108		
18	18	18	18	48	601.2973	LOCKNUT	MS21047-106		
79	79	79	79	47	601.2943	LOCKNUT	MS21049-09		
4	4	4	4	46	601.2364	CHERRY RIVET	MS21042-3		
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4.8		
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4.5		
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4.4		
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4.2		
3704	3703	3702	3701	PIND	PART #	DESCRIPTION	MATL		SPEC.

01728, 04845, 04880

PERSONS			
REV	DESCRIPTION	DATE	APPROVAL
	EAST PRODUCE RETURN PGI		NIC
NIC	SHIRT RELEASE	07/05/95	P. BRAD

[illegible]

NEXT ASSY (5

DESIGNER DATE	1/10/80
DRAWN BY	A. JACKSON
CHECKED BY	P. DAVIS
DATE	01/29/80
CONTRACT No.	

CHECKED
D. BARNES
F

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

412 CABLE CUTTERS KIT

SHEET NO. OR CASE NO.	DWG. NO.	REV.
B	07M16	647.3700
SCALE NONE		SHEET 1 OF 5